

Figure 1

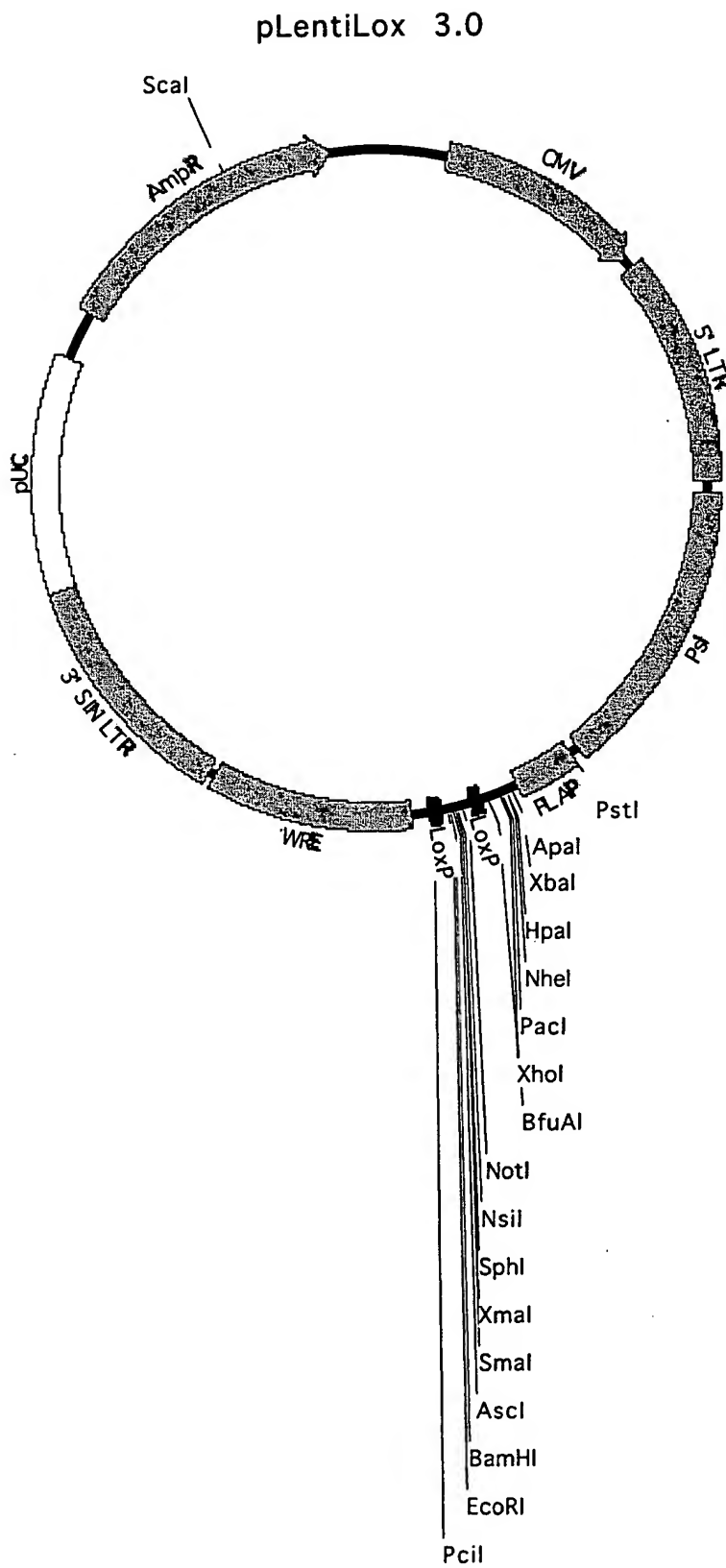


FIGURE 2

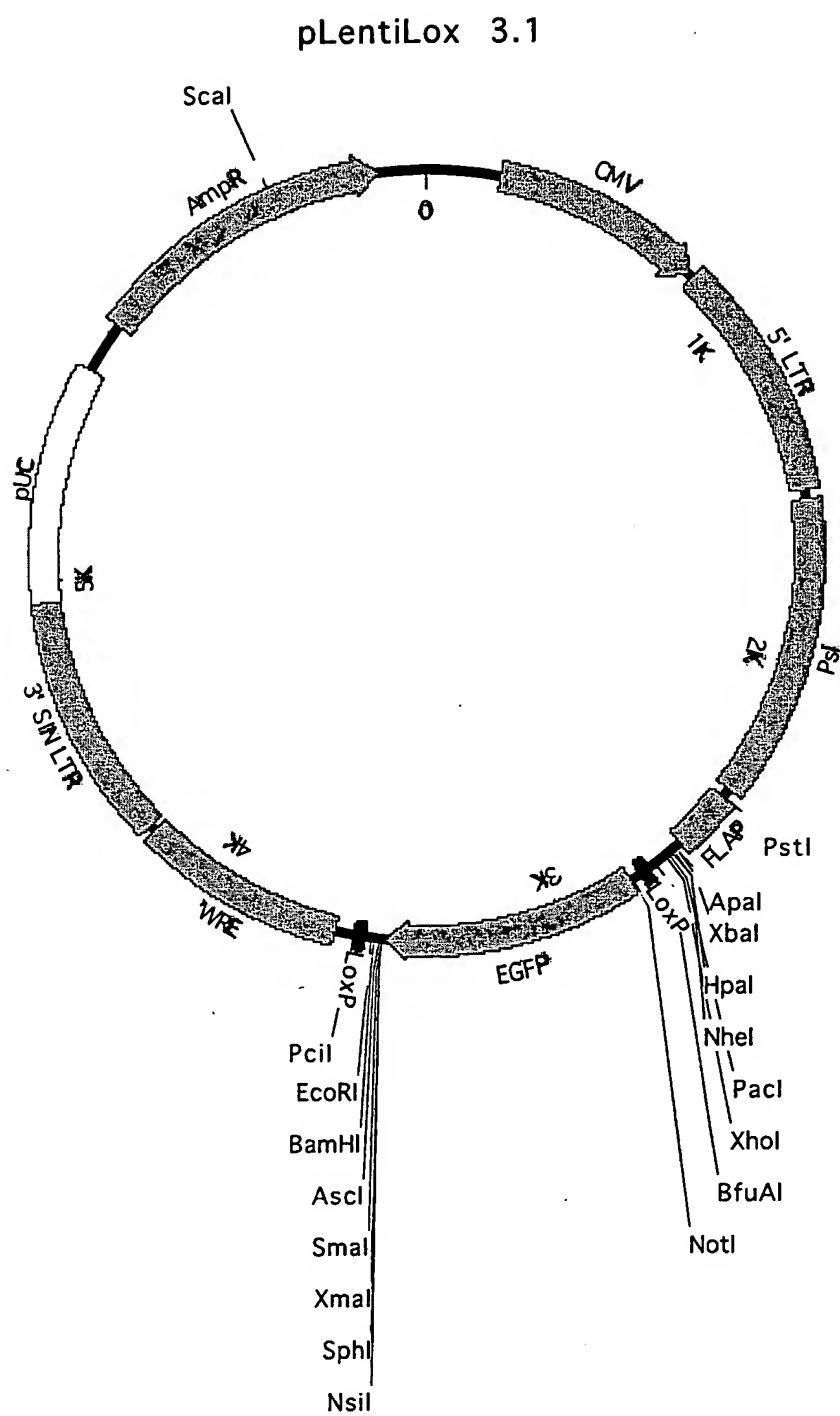


FIGURE 3

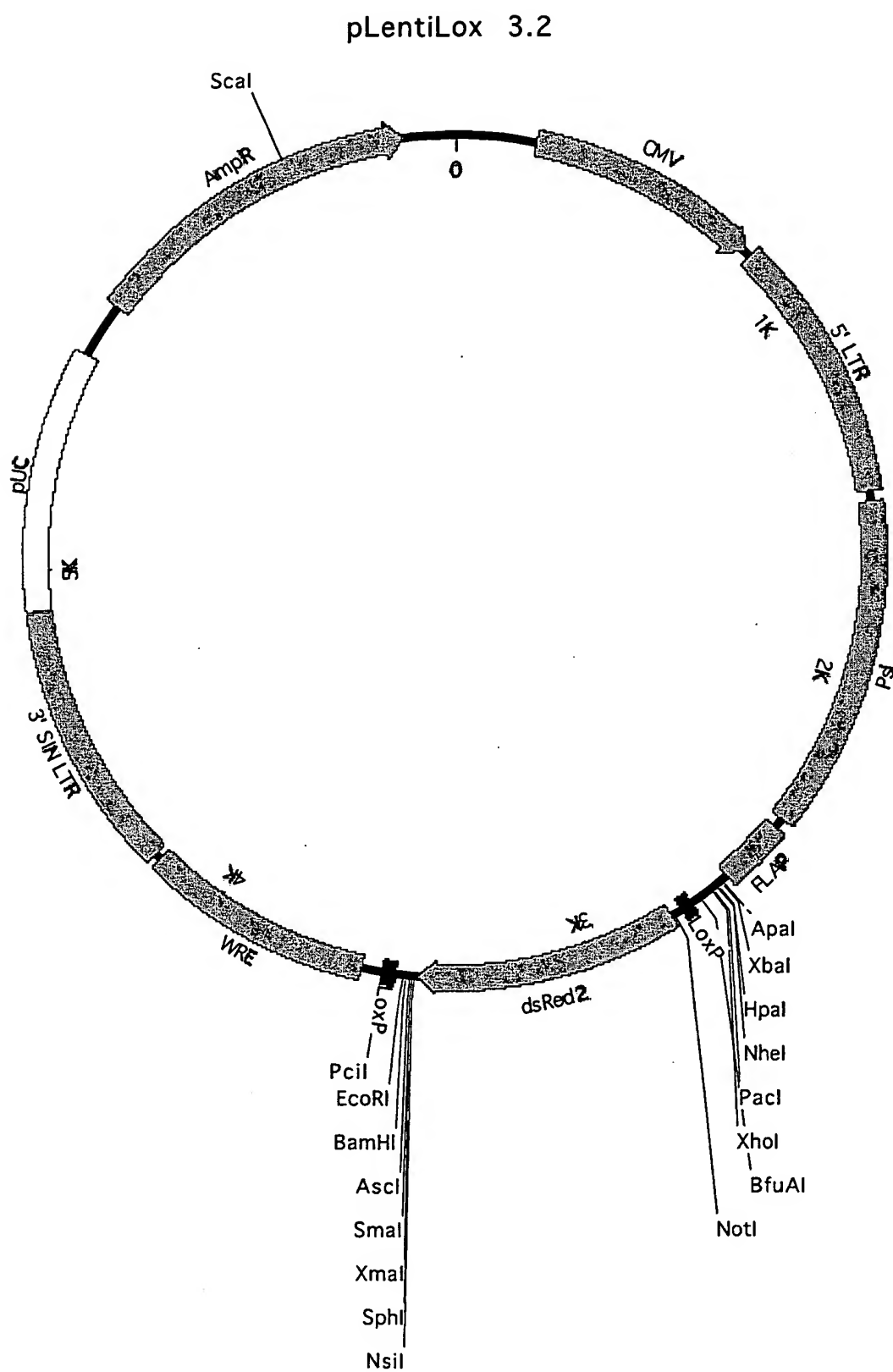


FIGURE 4

Circular map of the pCMVcat vector. The map shows various features including the CMV promoter, 5' LTR, 3' LTR, WRE, AmpR, and multiple restriction enzyme sites. Key sites include Scal, XbaI, PstI, Apal, XbaI, and a cluster of sites (PciI, EcoRI, BamHI, AscI, SmaI, XmaI, SphI, NsiI, NotI, XhoI, PacI, NheI) near the WRE region. The map also indicates the location of the UbC promoter and the 5' and 3' ends of the vector.

FIGURE 5

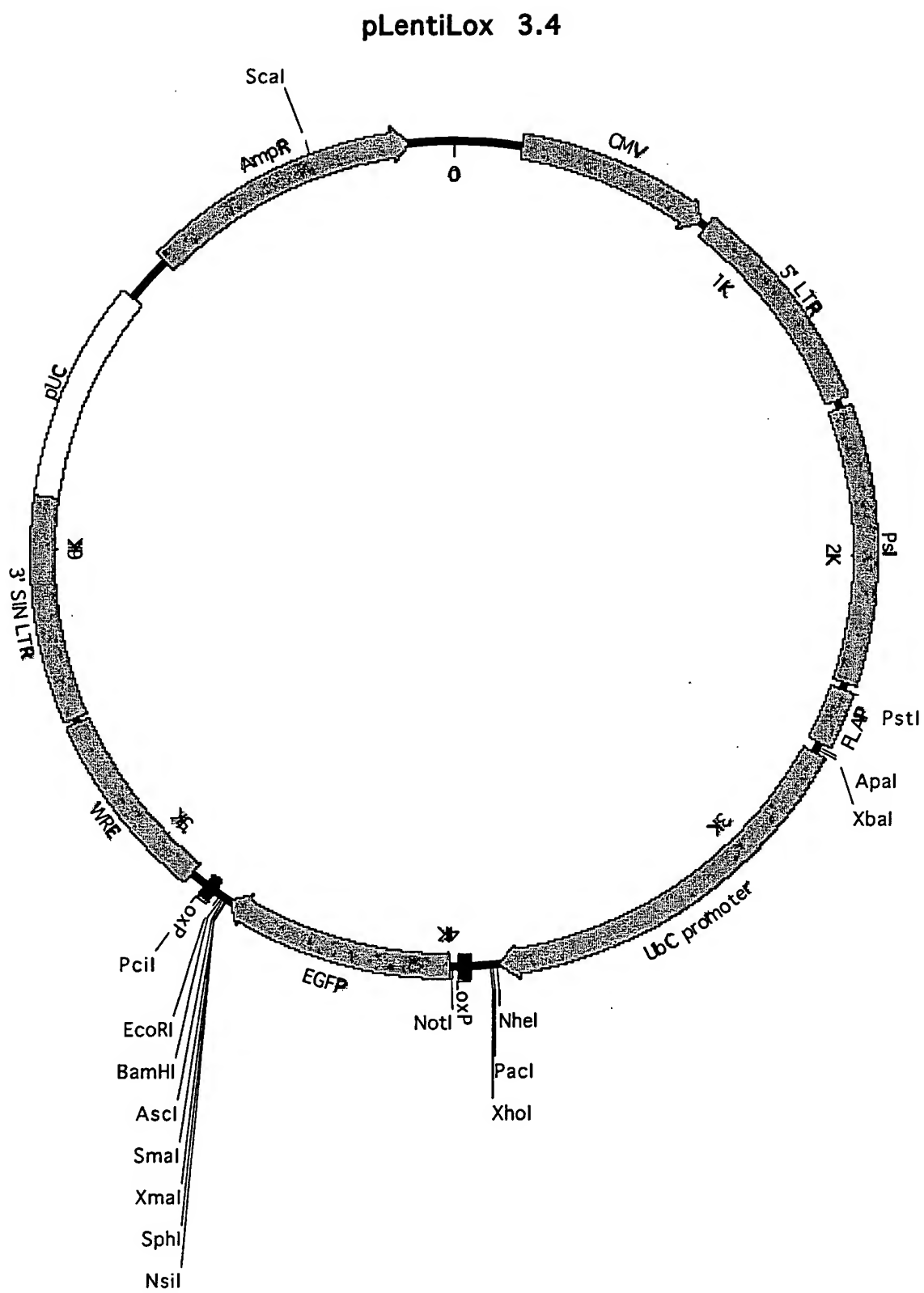


FIGURE 6

pLentiLox 3.5

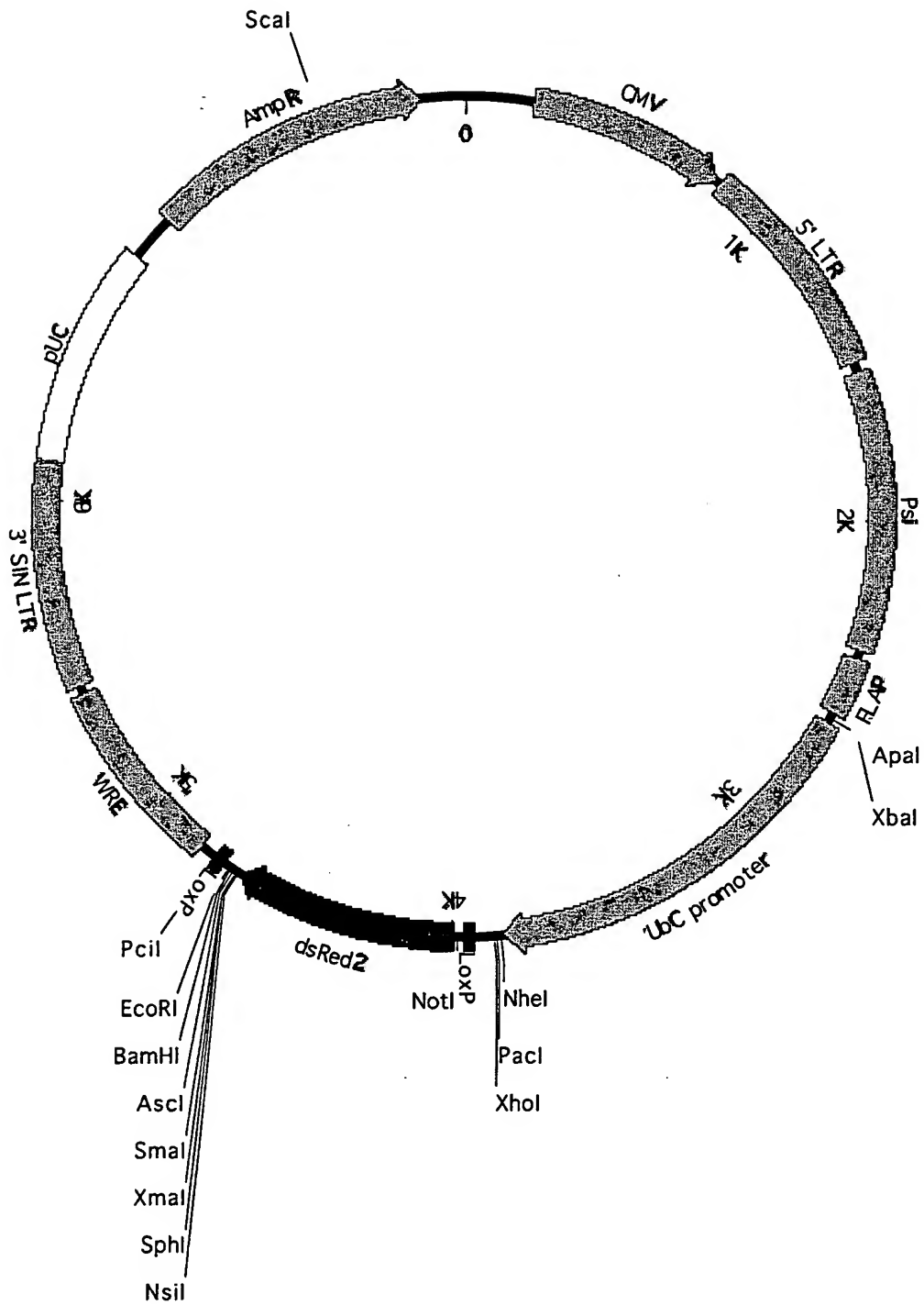


FIGURE 7

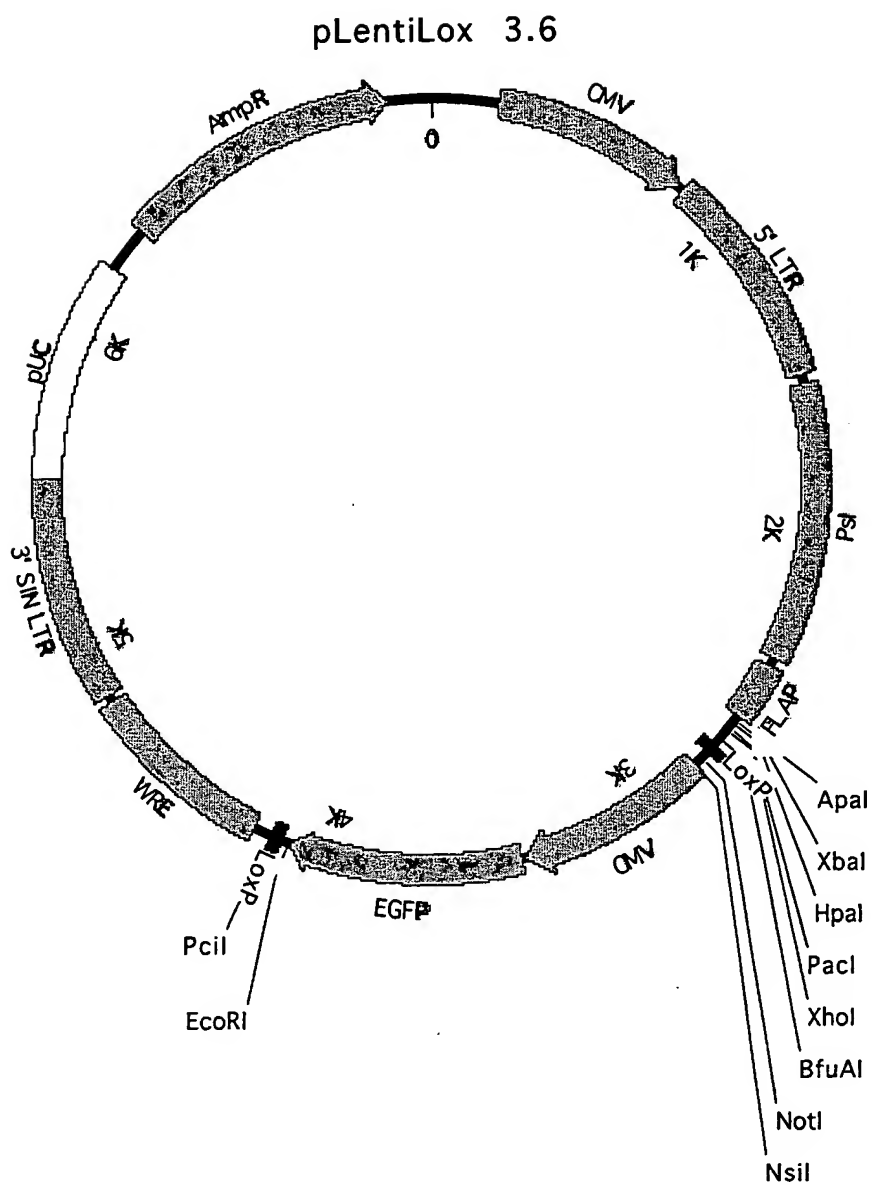


FIGURE 8

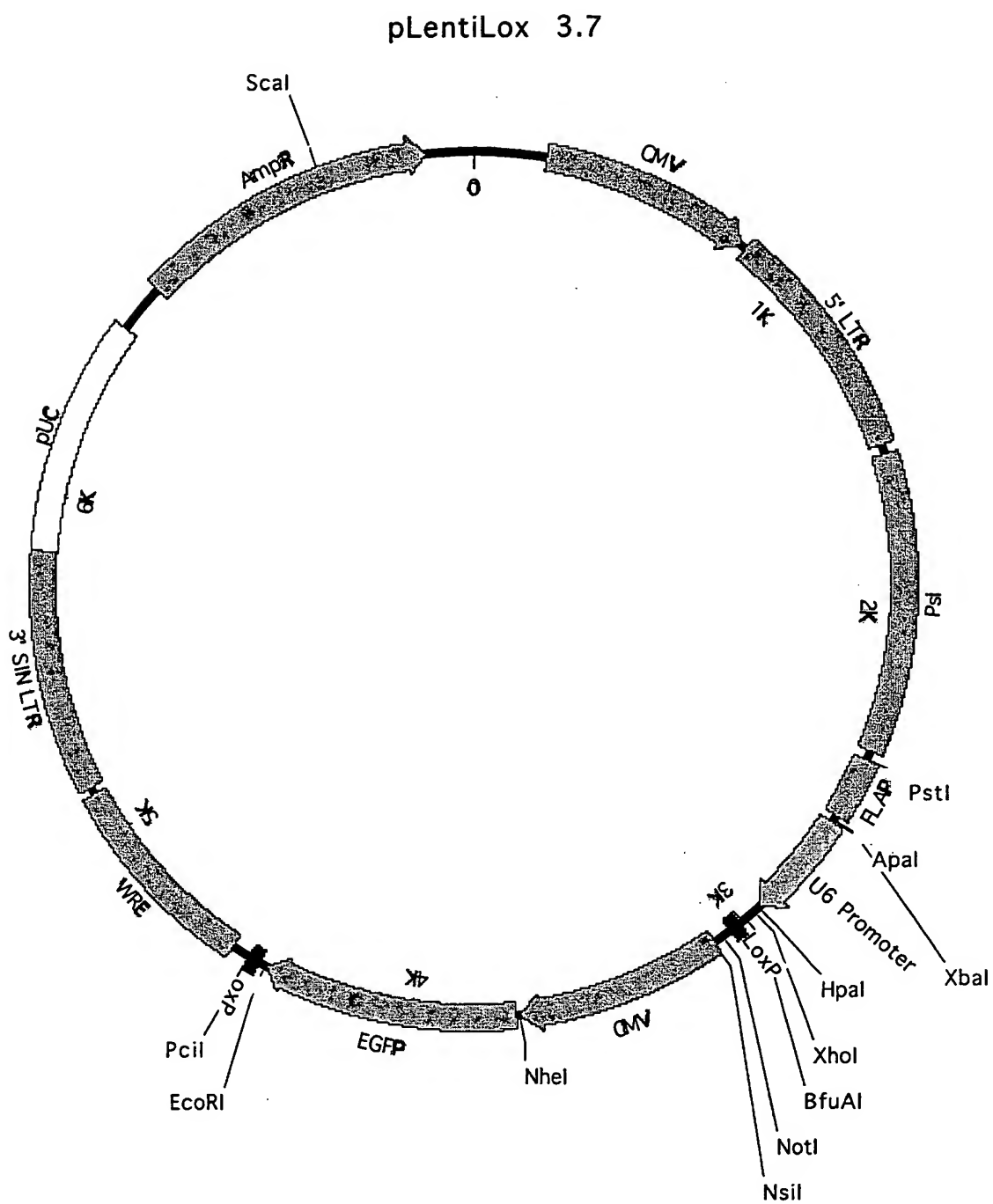


FIGURE 9

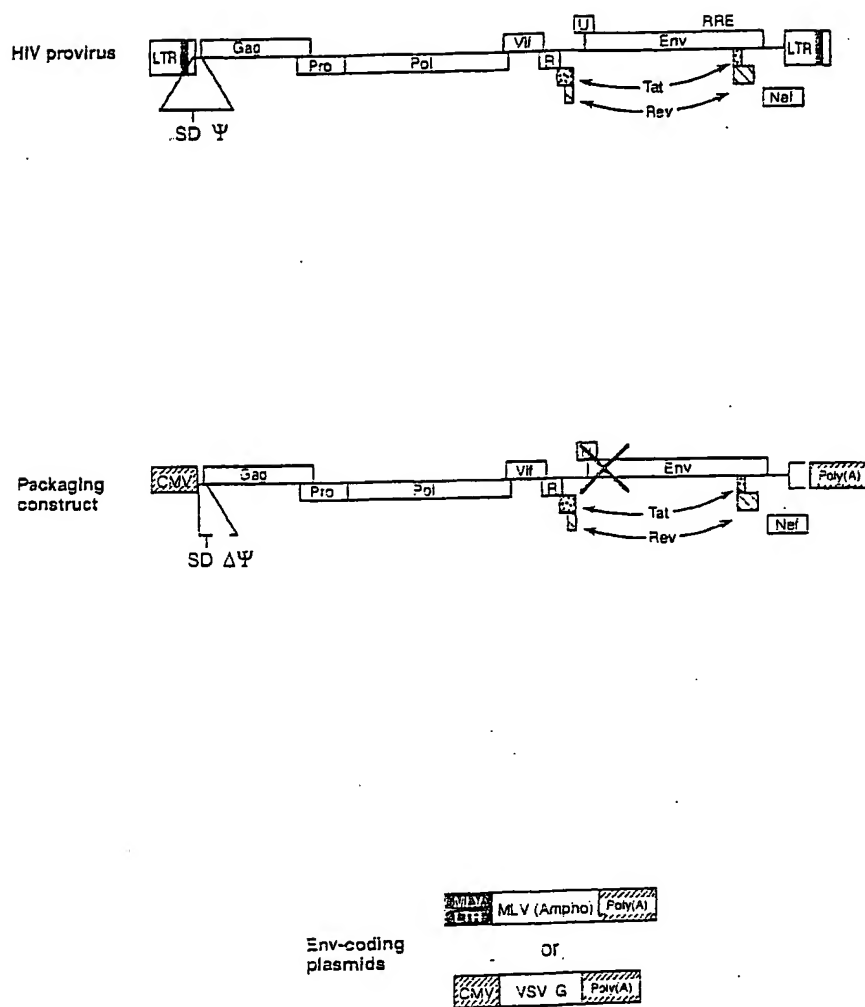
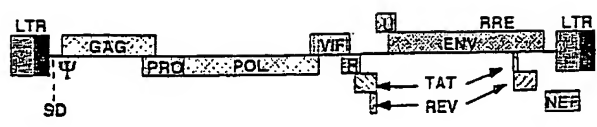
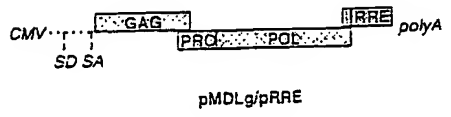


Figure 10 A

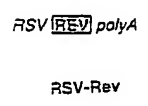
HIV Provirus



Packaging Construct



Rev-coding Plasmid



Env-coding Plasmid

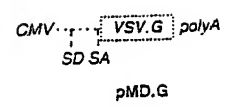


Figure 10B

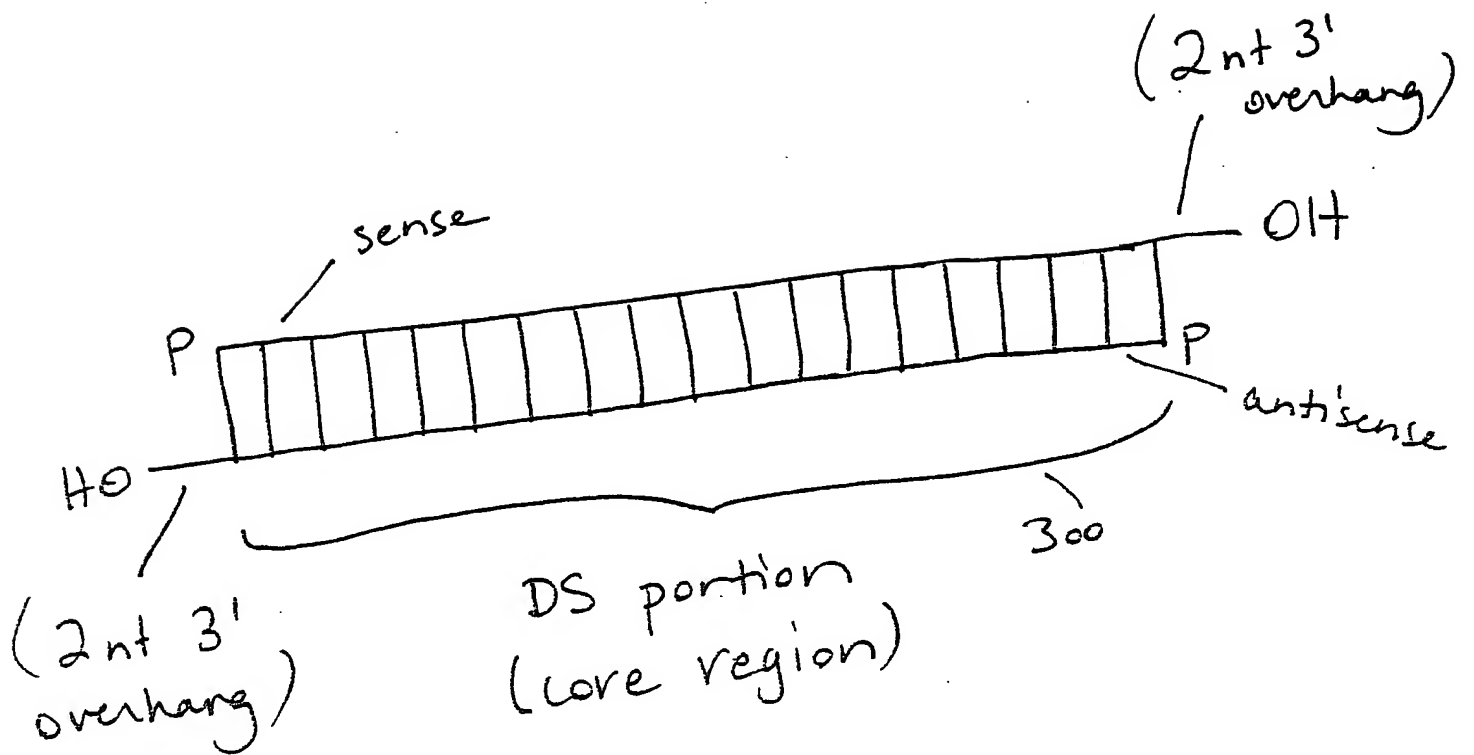


Figure 11

RNAi in Drosophila

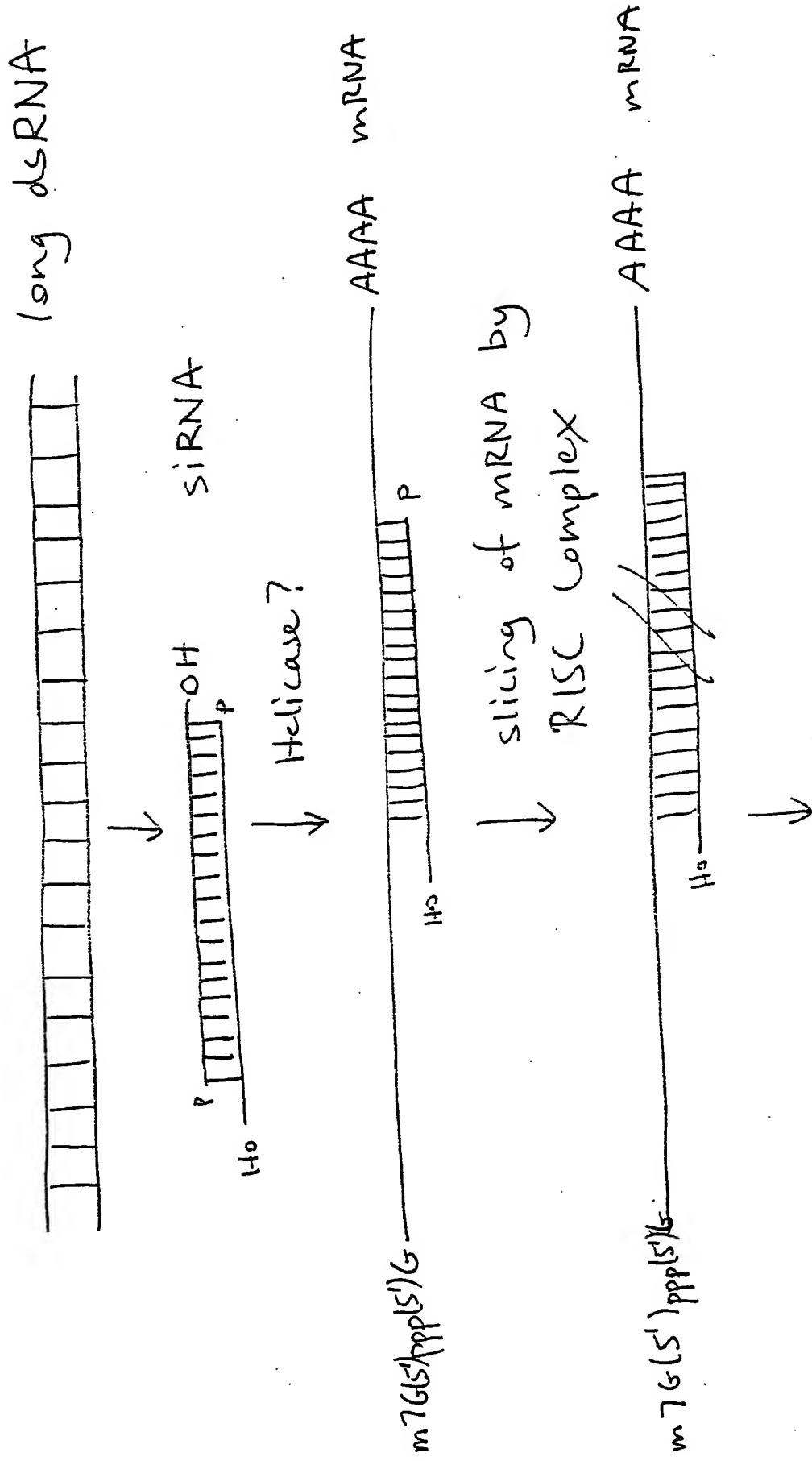
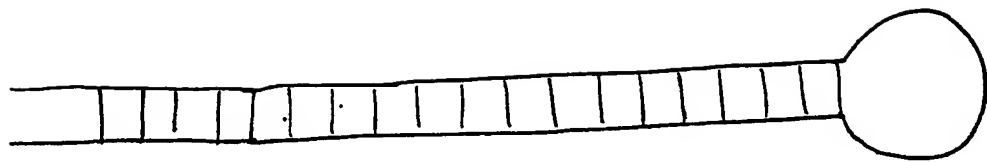
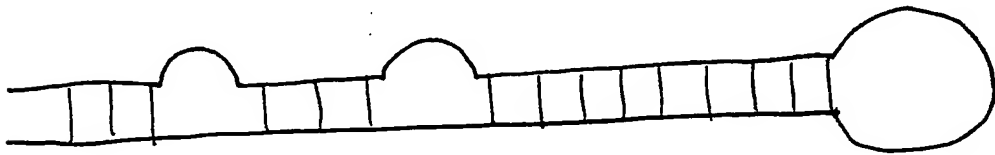


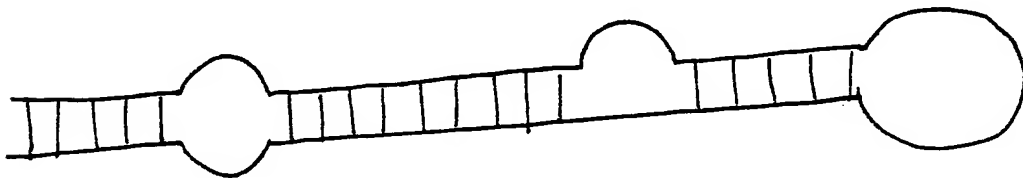
Figure 12



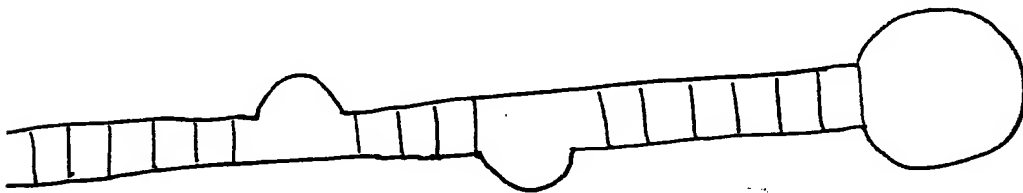
A



B



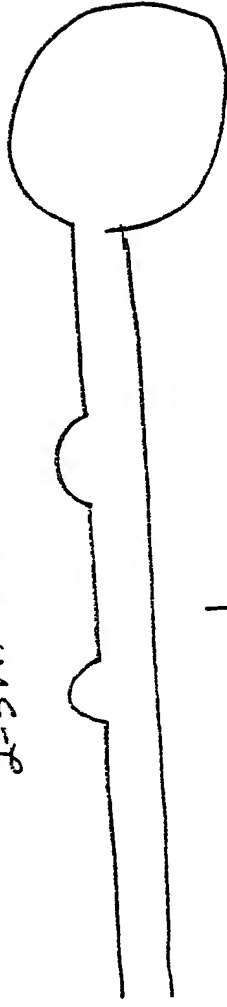
C



D

FIGURE 13

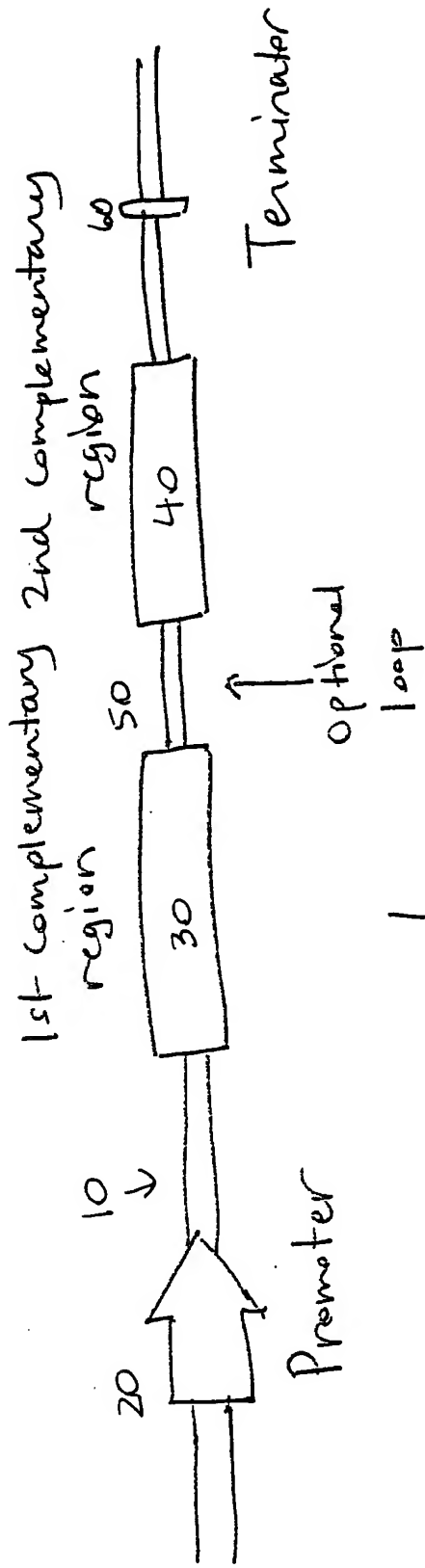
2-3 nt mismatches



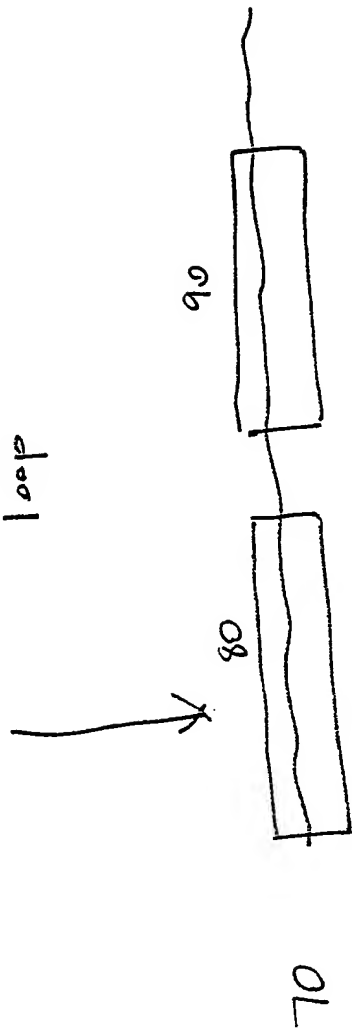
~~Translation~~

Figure 14

A



B



C

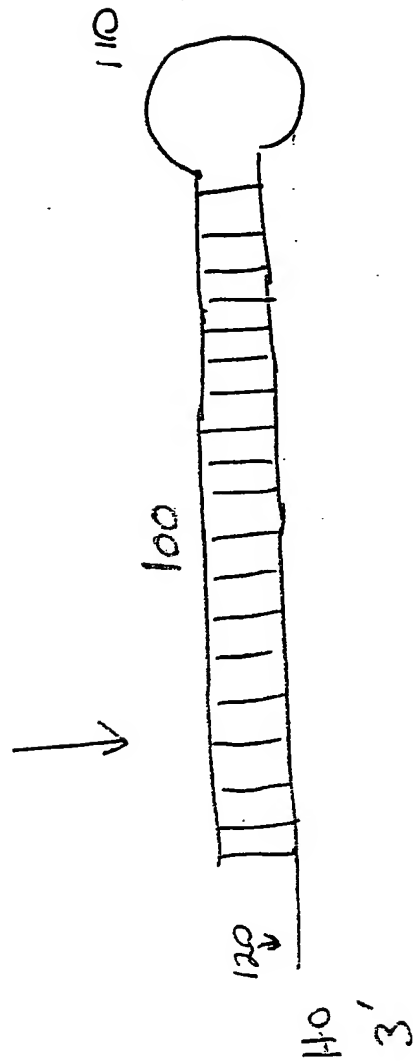


Figure 15

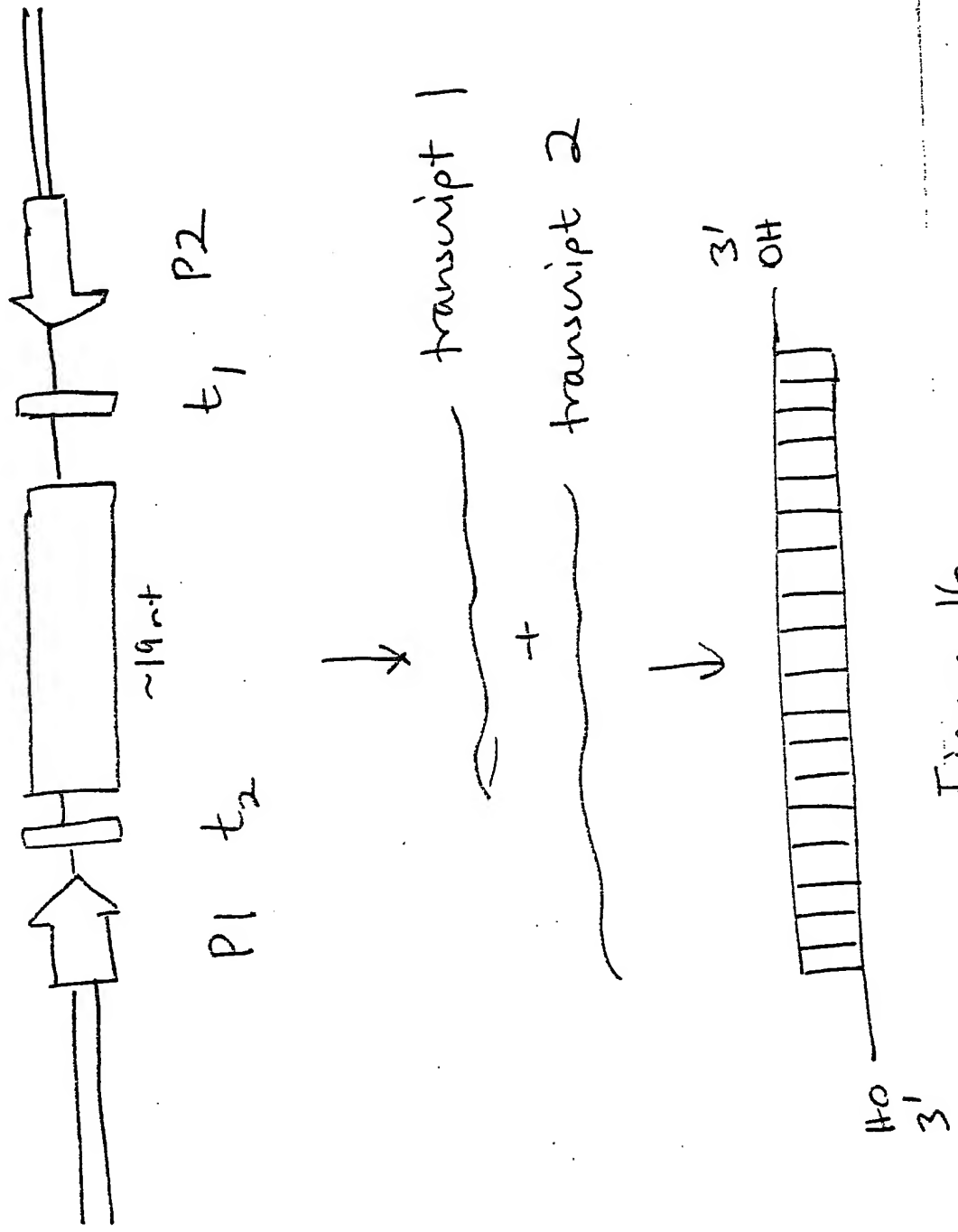
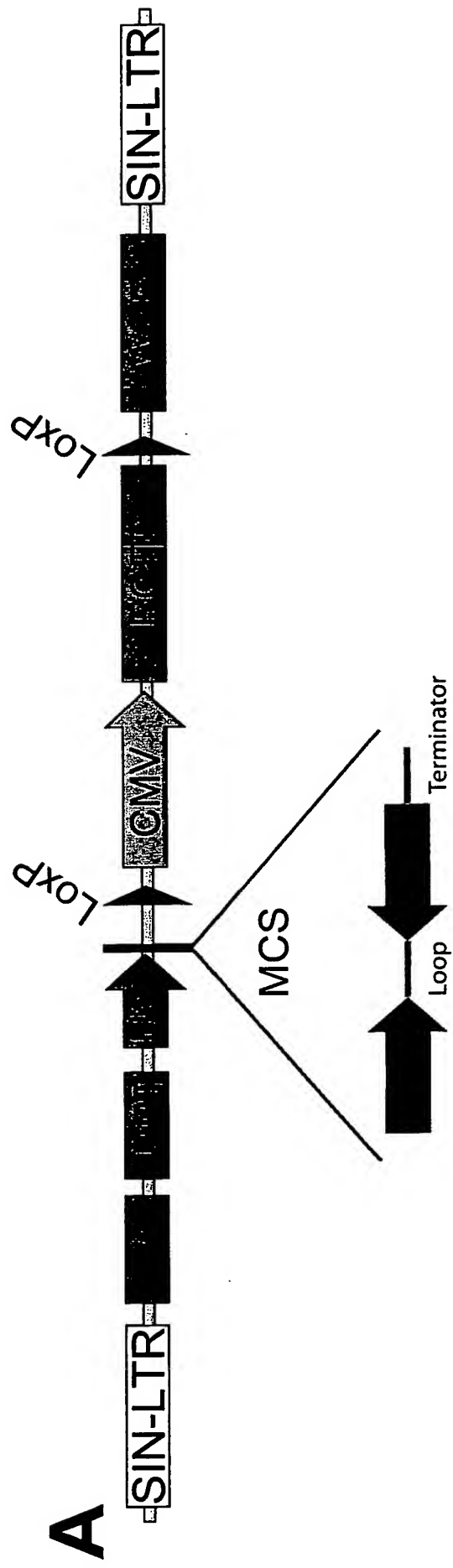


Figure 16

Figure 17



B CD8 Stem Loop Sequence

+1
|
TGCTACAACTACTACATGAC|TTCAAGAGAGTCATGTAGTAGTTGTAGCTTTT|TTTG
ACGATGTTGATGTACTGAAGTTCTCTCAGTACATCATCAACATCGAA|AAACATTG

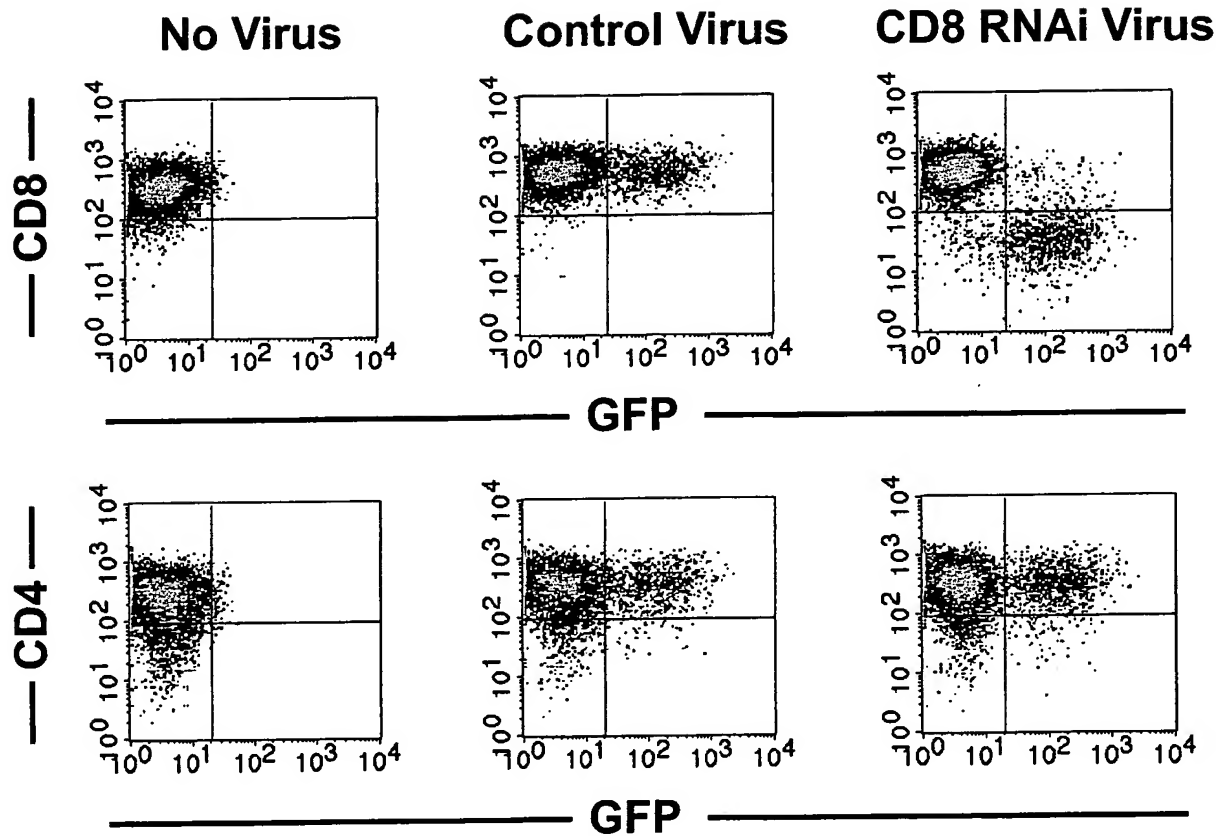
Terminator

C Predicted CD8 Stem Loop



Figure 18

A



B

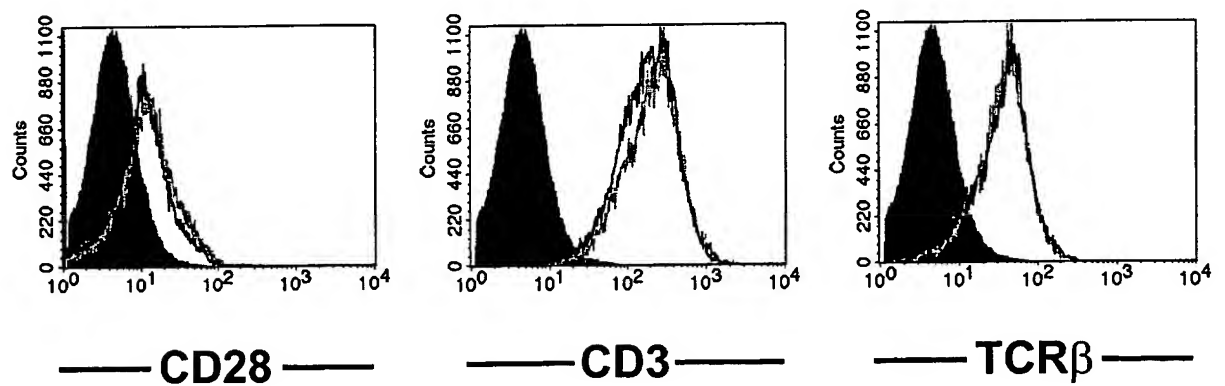


Figure 19

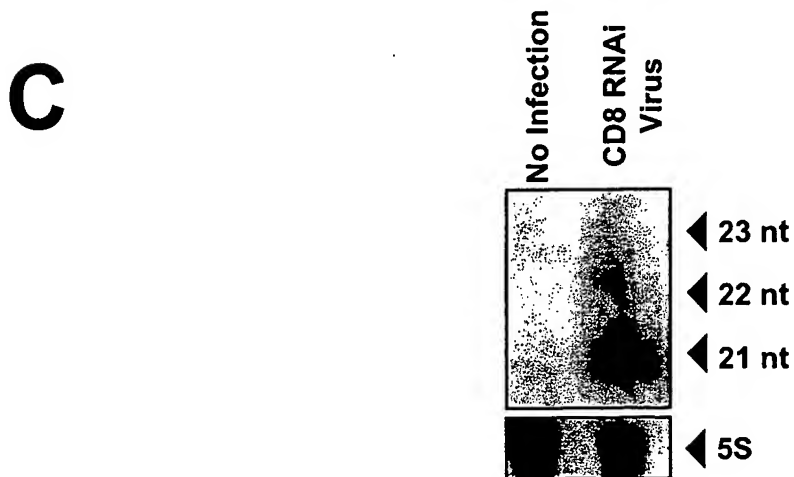
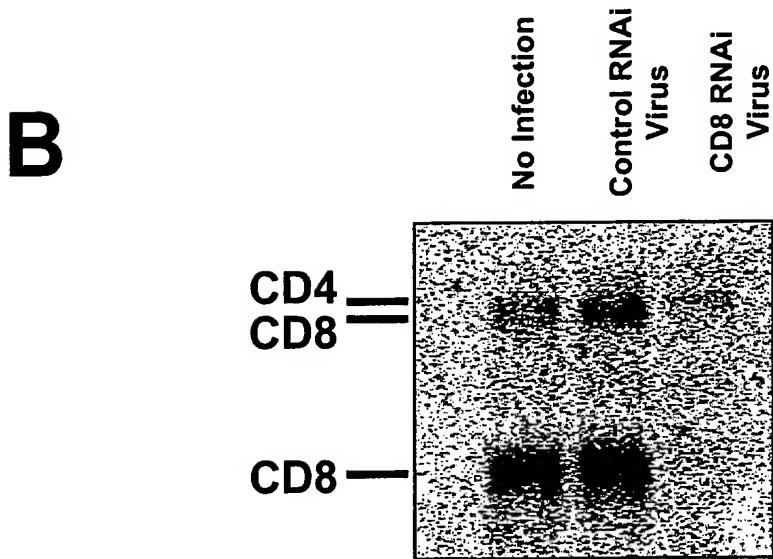
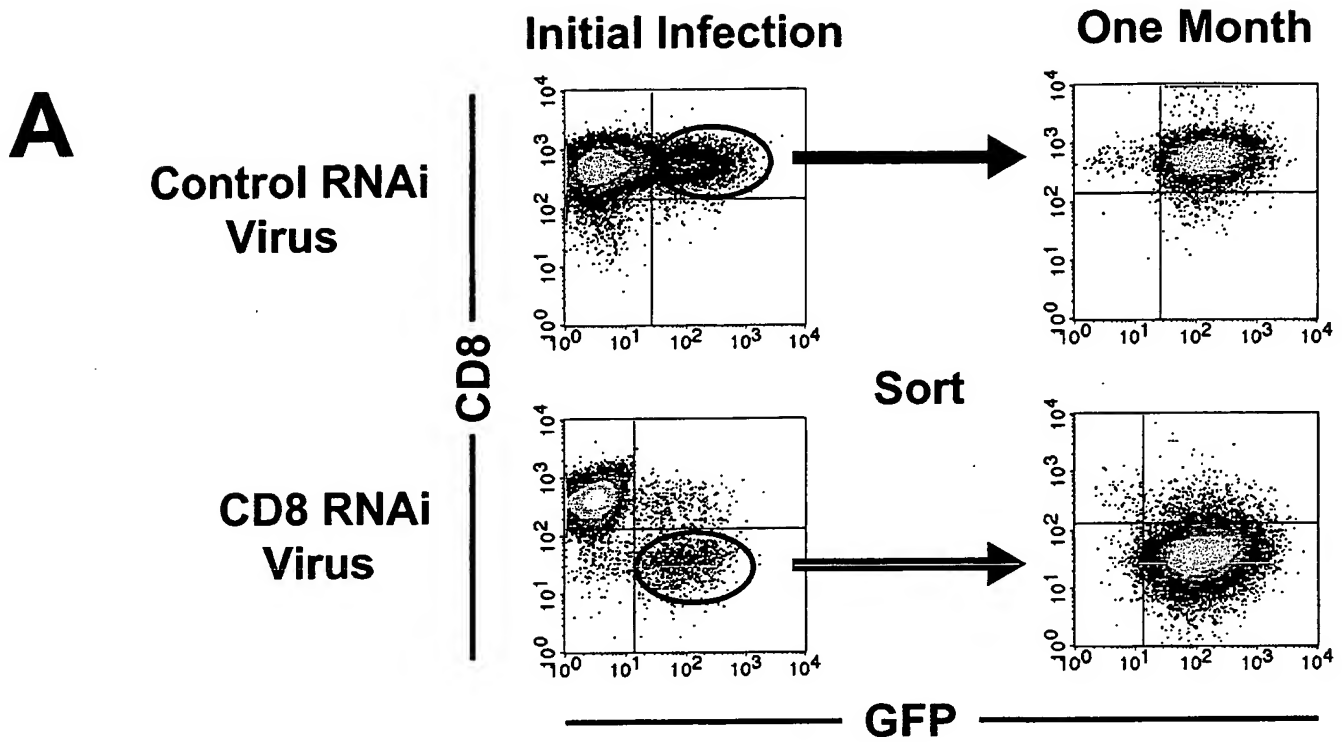


Figure 20

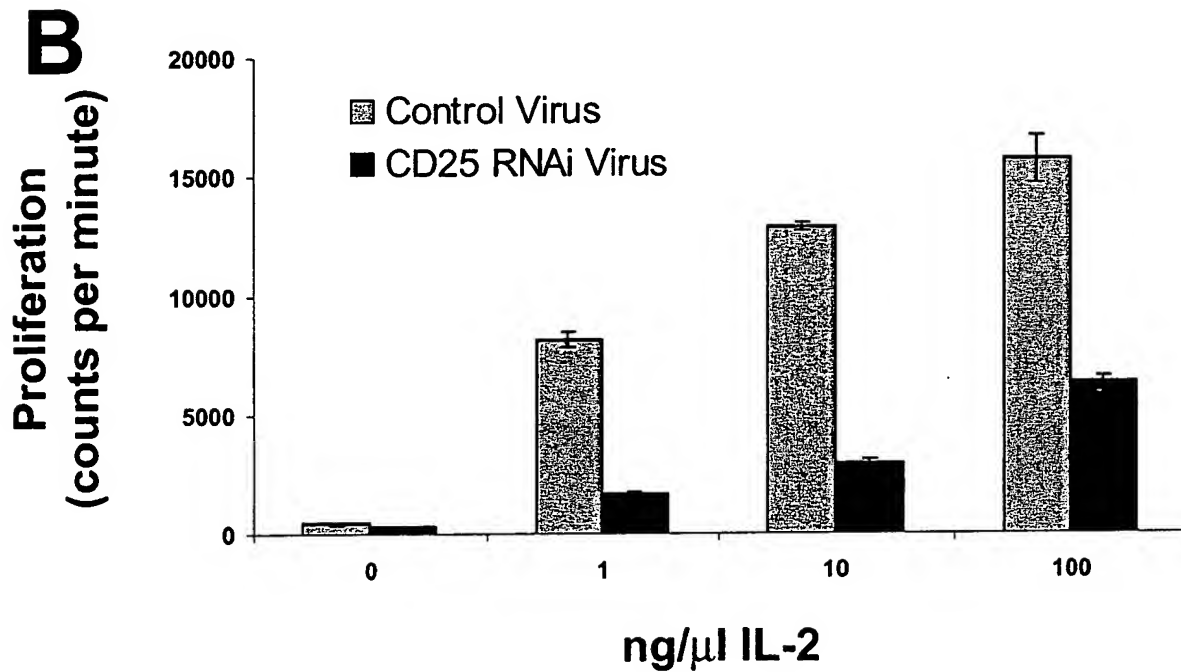
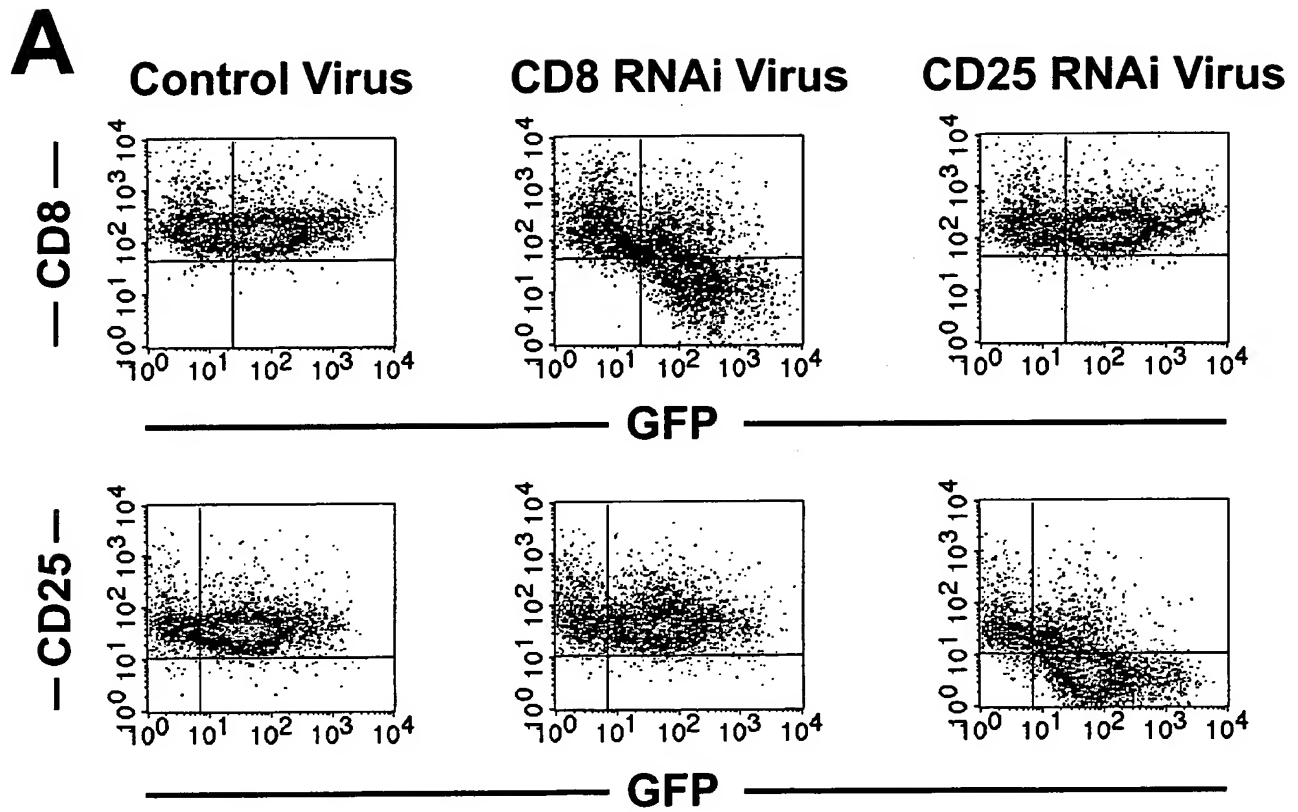


Figure 21

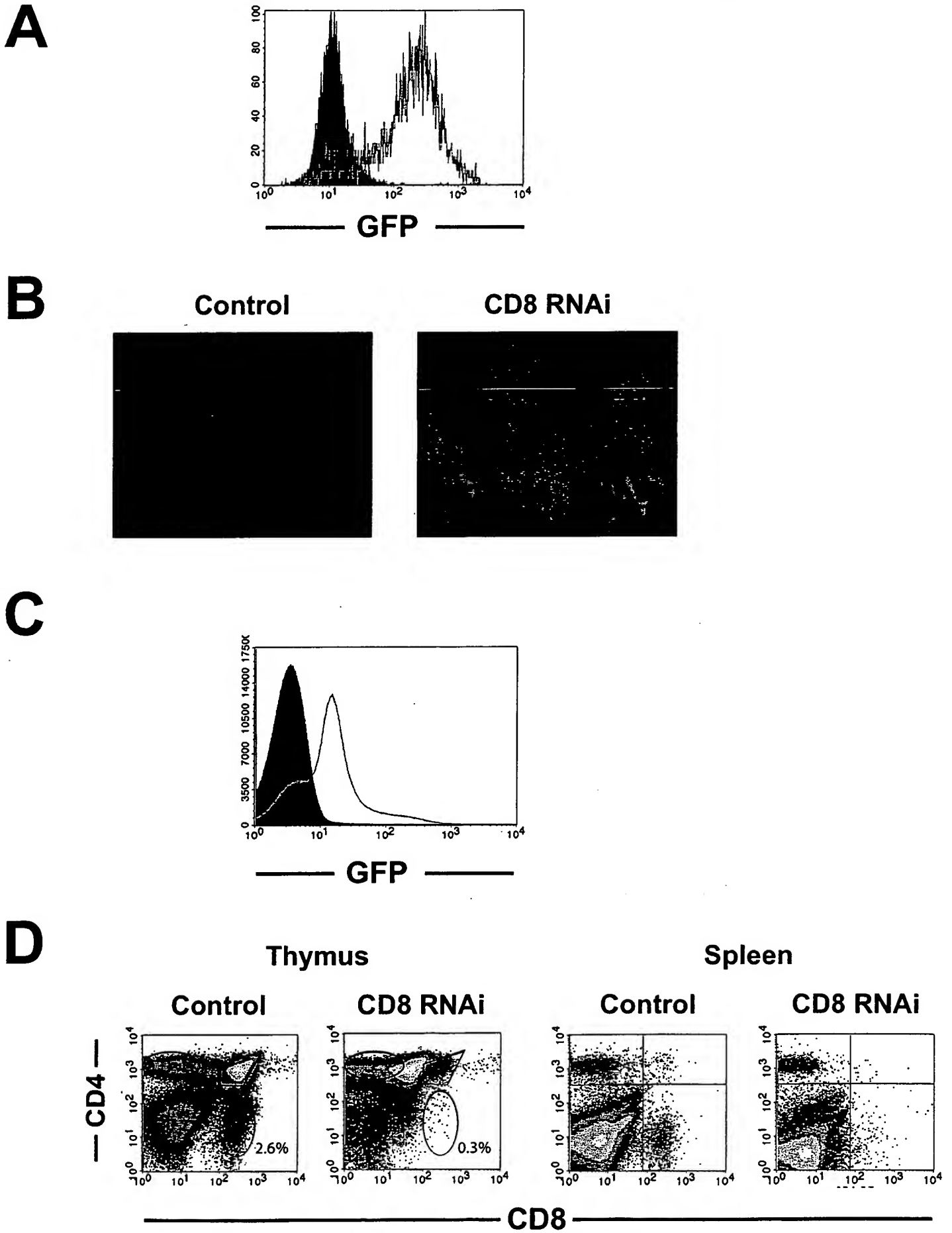
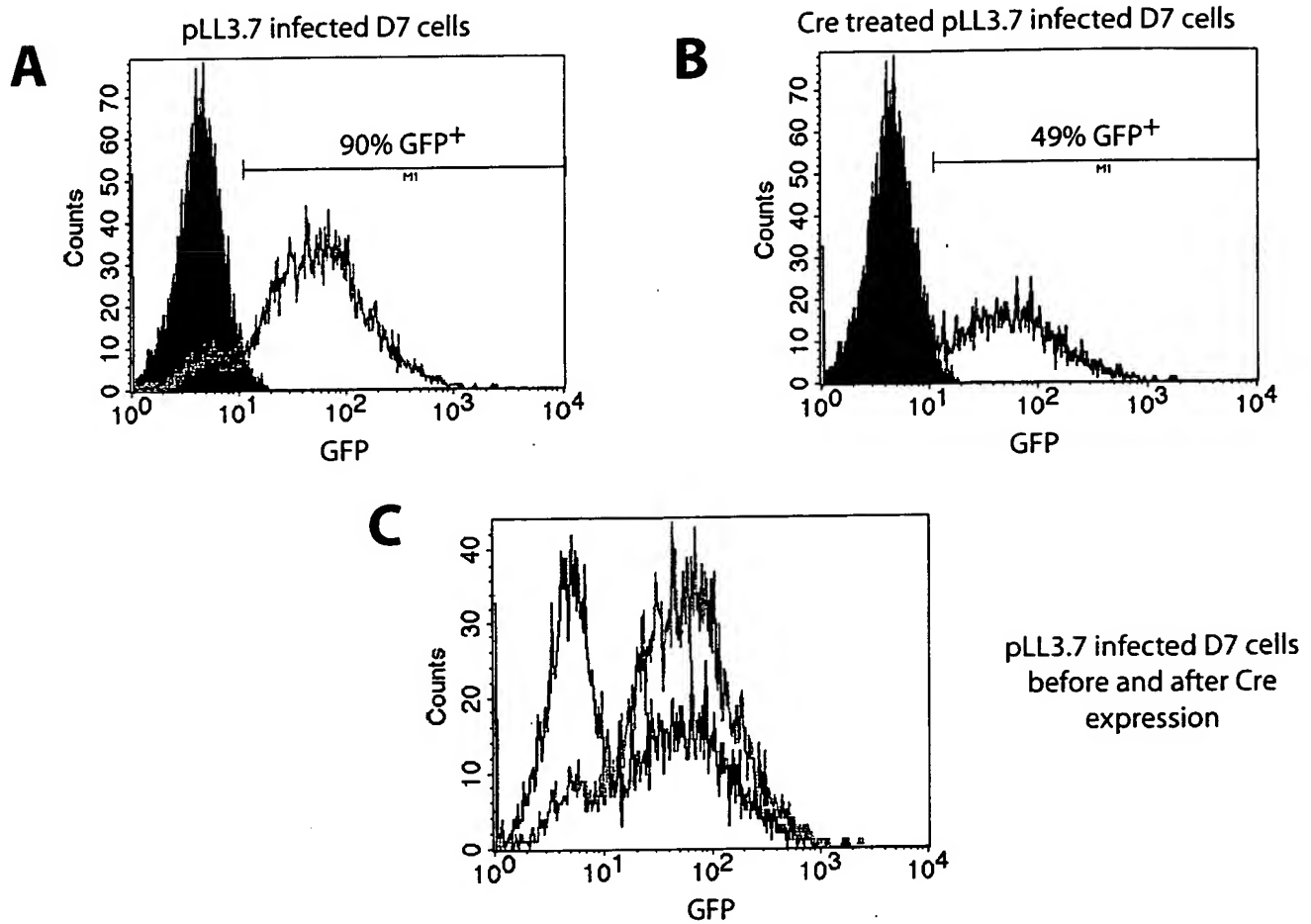
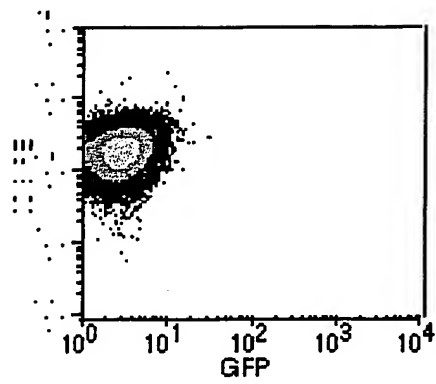


FIGURE 22

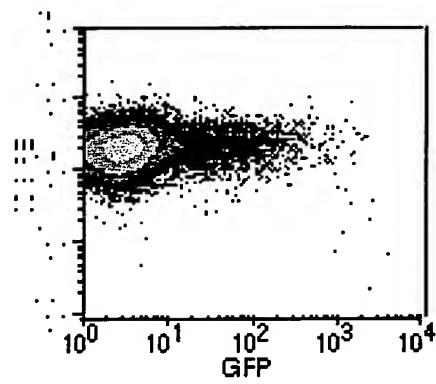


A 50% confluent 10cm plate of D7 cells (Bear et al. 2000), was infected with 100ul of concentrated pLL3.7 B-catenin lentivirus, which expressed GFP as a transgene between two LoxP sites. Infected cells were sorted based upon expression of EGFP (**A, green line**). A 50% confluent 6cm-plate of sorted D7 pLL3.7 b-catenin cells was infected with adenovirus expressing the Cre recombinase. 1×10^5 infectious units were used in the infection. Cells were expanded for 10 days to allow for expression of Cre protein, deletion of lox-CMVgfp-lox, and depletion of EGFP protein pools. Cells were then analyzed by flow cytometry for expression of EGFP (**B, pink line**). Cells were also sorted based upon loss of EGFP expression and expanded. Purple solid peak in A and B represent uninfected control. Percentage GFP⁺ cells are shown on each plot. A direct comparison between pLL3.7 infected D7 cells before (**green line**) and after (**pink line**) Cre delivery is seen in **C**.

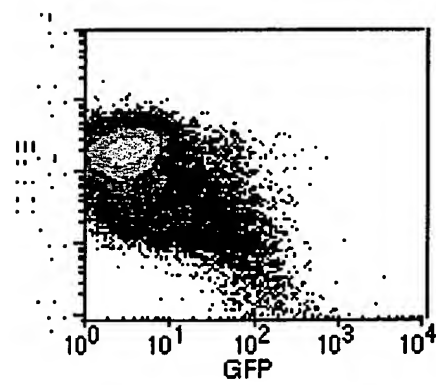
Figure 23



untransfected



transfected w/
irrelevant stem loop



cd8 stem loop in LL2.7

Figure 24

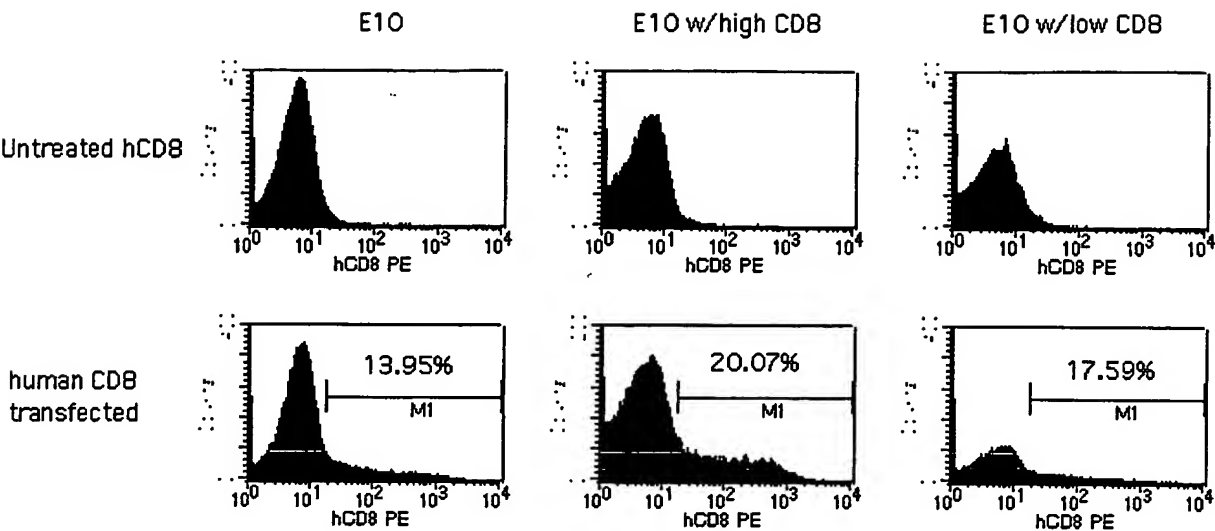


Figure 25

